


Electronic Filing System (EFS) Data  
Electronic Patent Application Submission  
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EFS ID: 12989  
Application ID: 09683088  
Title of Invention: SINGLE REACTOR, MULTI-  
PRESSURE CHEMICAL VAPOR  
DEPOSITION FOR  
SEMICONDUCTOR DEVICES  
First Named Inventor: Jack Chu  
Domestic/Foreign Application: Domestic Application  
Filing Date: null  
Effective Receipt Date: 2001-11-16  
Submission Type: Utility Patent Filing  
Filing Type: new-utility  
Confirmation Number: 0  
Attorney Docket Number: BUR920000077  
Digital Certificate Holder: cn=Robert A. Walsh, ou=Registered Attorneys, ou=Patent and  
Trademark Office, ou=Department of Commerce, o=U.S.  
Government, c=US  
Certificate Message Digest: FZla9Gjo1EHjllutu7IW5A==



# TRANSMITTAL FORM

JC474 U.S. PTO  
09/683088  
11/16/01

Electronic Version 1.0.2

Stylesheet Version: 1.0

Attorney Docket Number: BUR920000077

## SINGLE REACTOR, MULTI-PRESSURE CHEMICAL VAPOR DEPOSITION FOR SEMICONDUCTOR DEVICES

First Named Inventor: Jack Chu

### SUBMITTED BY

Name:

Mr. Robert A. Walsh Esq.

Registration Number:

26,516

Electronic Signature Mark: Robert A.  
Walsh /s/

Date Signed: 20011116

*I certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.*

*I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.*

### Attached Files:

bibd-transmittal

BUR920000077US1apds.xml

fee-transmittal

BUR920000077US1fee.xml

patent-assignment

BUR920000077US1asgn.xml

specification

BUR920000077US1.xml

declaration

BUR920000077 Dec. 1.tif

declaration	BUR920000077 Dec. 2.tif
declaration	BUR920000077 Dec. 3.tif
declaration	BUR920000077 Dec. 4.tif
declaration	BUR920000077 Dec. 5.tif
declaration	BUR920000077 Dec. 6.tif

**Attached Image File(s):**

BUR920000077 Dec. 1.tif  
BUR920000077 Dec. 2.tif  
BUR920000077 Dec. 3.tif  
BUR920000077 Dec. 4.tif  
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BUR920000077 Dec. 6.tif

BUR920000077 Dec. 1.tif

**Comments:**

ASSIGNEE: INTERNATIONAL BUSINESS MACHINES CORPORATION ASSIGNEE ADDRESS: ARMONK, NY  
10504

09683088-4444

## Declaration and Power of Attorney for Patent Application

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: SINGLE REACTOR, MULTI-PRESSURE CHEMICAL VAPOR DEPOSITION FOR SEMICONDUCTOR DEVICES.

the specification of which (check one)

X

is attached hereto,  
was filed on \_\_\_\_\_ as Application Serial No. \_\_\_\_\_ and was amended on \_\_\_\_\_.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s):

Number	Country	Day/Month/Year	Priority Claimed
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I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information material to the patentability of this application as defined in Title 37, Code of Federal Regulations, §1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Prior U.S. Applications:

Serial No.	Filing Date	Status
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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: (list name and registration number)

Mark F. Chadurjian, Reg. No. 30,739; Richard A. Henkler, Reg. No. 39,220; Richard M. Kotulak, Reg. No. 27,712; James M. Leas, Reg. No. 34,372; William D. Sabo, Reg. No. 27,465; Robert A. Walsh, Reg. No. 25,516; Howard J. Walter, Jr., Reg. No. 24,832; all of INTERNATIONAL BUSINESS MACHINES CORPORATION; Rudolf E. Hutz, Reg. No. 22,397; John D. Fairchild, Reg. No. 19,756; Harold Pezzner, Reg. No. 22,112; Richard M. Beck, Reg. No. 22,580; Paul E. Crawford, Reg. No. 24,397; Burton A. Amernick, Reg. No. 24,852; Morris Liss, Reg. No. 24,510; George R. Pettit, Reg. No. 27,369; Patricia Smink Rogowski, Reg. No. 33,791; Robert G. McMorrow, Jr., Reg. No. 30,962; Ashley I. Pezzner, Reg. No. 35,646; William E. McShane, Reg. No. 32,707; Mary W. Bourke, Reg. No. 30,982; Gerard M. O'Rourke, Reg. No. 39,794; James M. Olsen, Reg. No. 40,403; Francis DiGiovanni, Reg. No. 37,310; Eric J. Evain, Reg. No. 42,517; Daniel C. Mulveny, Reg. No. 45,897; John A. Evans, (Agent) 44,100; and Elliot C. Mendelson (Agent), Reg. No. 42,878; all of CONNOLLY BOVE LODGE & HUTZ, LLP; John E. Hoel, Reg. No. 26,279; Christopher A. Hughes, Reg. No. 26,914; Edward A. Pennington, Reg. No. 32,588; Joseph C. Redmond, Jr., Reg. No. 18,753; all of MORGAN & FINNEGAN, LLP.

Send all correspondence to:

Burton A. Amernick  
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P.O. Box 19088  
Washington, D.C. 20036-3425 U.S.A.  
Atty. Reg. No. 24,852

and Direct Telephone Calls to: Burton Amernick at (202) 331-7111

- (1) Inventor: Jack O. Chu  
 Signature: \_\_\_\_\_ Date \_\_\_\_\_  
 Residence: 44 Shelbourne Lane, Manhasset Hill, NY 11040  
 Citizenship: U.S.A.  
 Post Office Address: Same as residence.
- (2) Inventor: Basanth Jagannathan  
 Signature: Basant. Jagannathan Date \_\_\_\_\_  
 Residence: ~~1 Mountain View Knolls Drive, Apt. H, Fishkill, NY 12524~~ 966 WOLCOTT AV, BEACON, (B.J.)  
 Citizenship: India  
 Post Office Address: Same as residence.
- (3) Inventor: Ryan Wayne Wuthrich  
 Signature: \_\_\_\_\_ Date \_\_\_\_\_  
 Residence: 161 Austin Drive, #67, Burlington, VT 05401  
 Citizenship: U.S.A.  
 Post Office Address: Same as residence.

IBM Docket No.: BUR92000077US1

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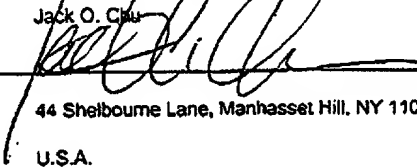
IBM Docket No.: BUR92000077US1

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and Direct Telephone Calls to: Burton Amernick at (202) 331-7111

- (1) Inventor: Jack O. Chu  
Signature:  Nov. 14, 2001  
Residence: 44 Shelbourne Lane, Manhasset Hill, NY 11040  
Citizenship: U.S.A.  
Post Office Address: Same as residence.
- (2) Inventor: Basanth Jagannathan  
Signature: \_\_\_\_\_  
Residence: 1 Mountain View Knolls Drive, Apt. H, Fishkill, NY 12524  
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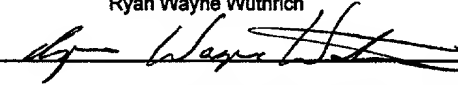
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(1) Inventor: Jack O. Chu  
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Citizenship: U.S.A.  
Post Office Address: Same as residence.

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# FEE TRANSMITTAL

Electronic Version 1.1.0

Stylesheet Version: 1.0

*Patent fees are subject to annual revisions on or about October 1st of each year.*

Large Entity

**TOTAL FEES AUTHORIZED: \$ 780**

The commissioner is hereby authorized to charge indicated processing and/or publication fees and credit any overpayments to:

Deposit Account Number: 09-0456



Deposit Account Name: International Business Machines Corporation

Charge Any Additional Fee Required Under 37 C.F.R. Sections 1.16 and 1.17.

## SUBMITTED BY

Authorized Name:

Robert A. Walsh

Electronic Signature Mark:

Robert A. Walsh /s/

Date Signed:

20011115

## BASIC FILING FEE

Fee Description	Fee Code	Fee Paid
Utility Filing Fee	101	\$ 740

Subtotal For Basic Filing Fee: \$ 740

## EXTRA CLAIM FEES

	Fee Code	Fee	Extra Claims	Fee Paid
Total Claims: 20	103	\$ 18	0	\$ 0
Independent Claims: 2	102	\$ 84	0	\$ 0

Subtotal For Extra Claims Fees: \$ 0

## ADDITIONAL FEES

Fee Description	Fee Code	Fee Paid
Recording Each Patent Assignment Per Property Fee	581	\$ 40

Subtotal For Additional Fees: **\$ 40**

09683088